

Application Number 10/693,008
Preliminary Amendment

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Original): A method comprising:

activating telemetry in a programmer for a medical device ; and
disabling a display in the programmer during the telemetry to reduce electrical interference.

Claim 2 (Original): The method of claim 1, further comprising disabling electronics associated with the display during the telemetry.

Claim 3 (Original): The method of claim 1, wherein the display resides on a circuit board with circuitry to drive the display, and disabling the display includes disabling the display and the circuitry.

Claim 4 (Original): The method of claim 1, further comprising enabling the display when the telemetry is not activated.

Claim 5 (Currently Amended): The method of claim 1, wherein the medical device is an implantable neurostimulator, and wherein the programmer includes an internal antenna and a telemetry circuit to transmit signals to the implantable neurostimulator via the internal antenna and process signals received from the implantable neurostimulator via the internal antenna, the method further comprising enabling the display when the telemetry is not activated.

Claim 6 (Original): The method of claim 1, wherein the programmer includes an internal antenna, an external antenna, and a telemetry circuit to perform telemetry via one of the internal

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antenna and the external antenna, the method further comprising enabling the display when the telemetry circuit performs telemetry via the external antenna.

Claim 7 (Original): The method of claim 1, wherein the programmer includes an internal antenna, an external antenna, and a telemetry circuit to perform telemetry via one of the internal antenna and the external antenna, the method further comprising disabling the display when the telemetry circuit performs telemetry via the internal antenna.

Claim 8 (Original): The method of claim 1, wherein the display is a liquid crystal display.

Claim 9 (Original): The method of claim 1, wherein the programmer includes an internal antenna and a telemetry circuit on a first circuit board and the display on a second circuit board.

Claim 10 (Original): The method of claim 9, wherein the internal antenna defines an aperture, and the programmer includes a battery bay extending at least partially into the aperture.

Claim 11 (Original): The method of claim 9, wherein the telemetry circuit is coupled to an external antenna via a cable, the method including selectively communicating with a medical device via one of the internal antenna and the external antenna.

Claim 12 (Original): A programmer comprising:
an antenna coupled to a programmer housing;
telemetry circuitry within the housing to perform telemetry with a medical device via the internal antenna;
a display within the housing to present information; and
control circuitry to disable the display in the programmer during the telemetry to reduce electrical interference.

Claim 13 (Original): The programmer of claim 12, wherein the control circuitry disables circuitry associated with the display during the telemetry.

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Claim 14 (Original): The programmer of claim 13, wherein the display resides on a circuit board with circuitry to drive the display, and the control circuitry disables the display includes disabling the display and the circuitry.

Claim 15 (Original): The programmer of claim 12, wherein the control circuitry enables the display when the telemetry is not activated.

Claim 16 (Currently Amended): The programmer of claim 12, wherein the medical device is an implantable neurostimulator, and wherein the programmer includes an internal antenna and a telemetry circuit to transmit signals to the implantable neurostimulator via the internal antenna and process signals received from the implantable neurostimulator via the internal antenna, and wherein the control circuitry enables the display when the telemetry is not activated.

Claim 17 (Original): The programmer of claim 12, wherein the programmer includes an internal antenna, an external antenna, and a telemetry circuit to perform telemetry via one of the internal antenna and the external antenna, and the control circuitry enables the display when the telemetry circuit performs telemetry via the external antenna.

Claim 18 (Original): The programmer of claim 12, wherein the programmer includes an internal antenna, an external antenna, and a telemetry circuit to perform telemetry via one of the internal antenna and the external antenna, and the control circuitry disables the display when the telemetry circuit performs telemetry via the internal antenna.

Claim 19 (Original): The programmer of claim 18, wherein the display is a liquid crystal display.

Claim 20 (Original): The programmer of claim 18, wherein the programmer includes an internal antenna and a telemetry circuit on a first circuit board and the display on a second circuit board.

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Claim 21 (Original): The programmer of claim 20, wherein the telemetry circuit is coupled to an external antenna via a cable, and the control circuitry selects one of the internal antenna and the external antenna for telemetry with the medical device.

Claim 22 (New): The method of claim 1, wherein the medical device is an implanted neurostimulator.

Claim 23 (New): The programmer of claim 12, wherein the medical device is an implanted neurostimulator.

Claim 24 (New): A method comprising:
 activating telemetry circuitry in a programmer for an implantable neurostimulator;
 communicating with the neurostimulator via the telemetry circuitry; and
 disabling a display in the programmer during communication via the telemetry circuitry
to reduce electrical interference.

Claim 25 (New): The method of claim 24, wherein the programmer is a handheld, portable device.

Claim 26 (New): The method of claim 24, wherein the programmer includes an internal antenna, and the telemetry circuitry transmits signals to the implantable neurostimulator via the internal antenna and processes signals received from the implantable neurostimulator via the internal antenna, the method further comprising enabling the display when the telemetry circuitry is not activated.

Claim 27 (New): The method of claim 24, wherein the programmer includes an internal antenna, an external antenna, and the telemetry circuitry performs telemetry via one of the internal antenna and the external antenna, the method further comprising enabling the display when the telemetry circuit performs telemetry via the external antenna and disabling the display when the telemetry circuit performs telemetry via the internal antenna.

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Claim 28 (New): A programmer for an implantable neurostimulator, the programmer comprising:

- an antenna coupled to a programmer housing;
- telemetry circuitry within the housing to perform telemetry with the neurostimulator via the internal antenna;
- a display within the housing to present information; and
- control circuitry to disable the display in the programmer during the telemetry to reduce electrical interference.

Claim 29 (New): The programmer of claim 28, wherein the programmer is a handheld, portable device.

Claim 30 (New): The programmer of claim 28, wherein the programmer includes an internal antenna, and the telemetry circuitry transmits signals to the implantable neurostimulator via the internal antenna and processes signals received from the implantable neurostimulator via the internal antenna, the control circuitry enabling the display when the telemetry circuitry is not activated.

Claim 31 (New): The method of claim 28, wherein the programmer includes an internal antenna, an external antenna, and the telemetry circuitry performs telemetry via one of the internal antenna and the external antenna, the control circuitry enabling the display when the telemetry circuit performs telemetry via the external antenna and disabling the display when the telemetry circuit performs telemetry via the internal antenna.

Claim 32 (New): A system comprising:

- an implantable neurostimulator; and
- a programmer for the neurostimulator, the programmer including an antenna coupled to a programmer housing, telemetry circuitry within the housing to perform telemetry with the neurostimulator via the internal antenna, a display within the housing to present information, and

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control circuitry to disable the display in the programmer during the telemetry to reduce electrical interference.